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1 Join processing in relational databases

99%

Priti Mishra , Margaret H. Eich

ACM Computing Surveys (CSUR) March 1992

Volume 24 Issue 1

The join operation is one of the fundamental relational database query operations. It facilitates the retrieval of information from two different relations based on a Cartesian product of the two relations. The join is one of the most difficult operations to implement efficiently, as no predefined links between relations are required to exist (as they are with network and hierarchical systems). The join is the only relational algebra operation that allows the combining of related tuples fro ...

2 Query optimization in a memory-resident domain relational calculus

99%

database system

Kyu-Young Whang , Ravi Krishnamurthy

ACM Transactions on Database Systems (TODS) March 1990

Volume 15 Issue 1

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...



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1 Experiences building the open OODB query optimizer 99%

José A. Blakeley , William J. McKenna , Goetz Graefe

ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data June 1993

Volume 22 Issue 2

This paper reports our experiences building the query optimizer for TI's Open OODB system. To the best of our knowledge, it is the first working object query optimizer to be based on a complete extensible optimization framework including logical algebra, execution algorithms, property enforcers, logical transformation rules, implementation rules, and selectivity and cost estimation. Our algebra incorporates a new materialize operator with its corresponding logical transform ...

2 DLFM: a transactional resource manager 96%

Hui-I Hsiao , Inderpal Narang

ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data May 2000

Volume 29 Issue 2

The DataLinks technology developed at IBM Almaden Research Center and now available in DB2 UDB 5.2 introduces a new data type called DATALINK for a database to reference and manage files stored external to the database. An external file is put under a database control by "linking" the file to the database. Control to a file can also be removed by "unlinking" it. The technology provides transactional semantics with respect to linking or unlinking the file when DATALINK ...